BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer, Project Division, B.B.M.P., Bangalore - 92

APPROVED SCHEDULE - B

Name of Work: Widening of Attur Road from Major Sandeeep Unnikrishanan Road to Attur IPP Hospital Road. in ward No.03

Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of B B UMESHA	
				Rate in figures	Rate in words
1	19.88	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 with all lead and lift and directions of the Engineer in charge of the work	Cum	1000.00	One Thousand Rupees and Zero Paise
2	29.16	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar with all lead and lift and directions of the Engineer in charge of the work	Cum	500.00	Five Hundred Rupees and Zero Paise
3	1248.00	Removing and Resetting of Footpath Slab with all lead and lift and directions of the Engineer in charge of the work	Sqm	80.00	Eighty Rupees and Zero Paise
4	36.00	Removing B.S Slab of Drain and Stacking with all lead and lift and directions of the Engineer in charge of the work	Sqm	200.00	Two Hundred Rupees and Zero Paise
5	358.80	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift and directions of the Engineer in charge of the work	Cum	180.00	One Hundred Eighty Rupees and Zero Paise
6	36.00	Refixing Stone Slabs of Drains and pointing in C.M (1:3) with all lead and lift and directions of the Engineer in charge of the work	Sqm	100.00	One Hundred Rupees and Zero Paise

Signature of the Contractor

Executive Engineer (Project)

Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of B B UMESHA	
				Rate in figures	Rate in words
7	8.10	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift and directions of the Engineer in charge of the work	Cum	3700.00	Three Thousand Seven Hundred Rupees and Zero Paise
8	24.30	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(using available stones) with all lead and lift and directions of the Engineer in charge of the work	Cum	2500.00	Two Thousand Five Hundred Rupees and Zero Paise
9	30.78	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. with all lead and lift and directions of the Engineer in charge of the work	Cum	2200.00	Two Thousand Two Hundred Rupees and Zero Paise
10	37.40	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift and directions of the Engineer in charge of the work	Cum	3594.00	Three Thousand Five Hundred Ninety Four Rupees and Zero Paise
11	150.00	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	1800.00	One Thousand Eight Hundred Rupees and Zero Paise
12	54.00	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	1800.00	One Thousand Eight Hundred Rupees and Zero Paise

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Executive Engineer (Project)

Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of B B UMESHA	
				Rate in figures	Rate in words
13	700.00	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete with all lead and lift and directions of the Engineer in charge of the work	No.	300.00	Three Hundred Rupees and Zero Paise
14	420.00	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 with all lead and lift and directions of the Engineer in charge of the work	Sqm	80.00	Eighty Rupees and Zero Paise
15	2597.10	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 with all lead and lift and directions of the Engineer in charge of the work	Cum	180.00	One Hundred Eighty Rupees and Zero Paise
16	4722.00	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3with all lead and lift and directions of the Engineer in charge of the work	Sqm	100.00	One Hundred Rupees and Zero Paise
17	660.00	KSRRB M300-59.1. Loosening of the ground upto a level of 500mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Table 300-2 for subgrade construction complete as per specifications. Case-I:Compacting original ground supporting subgrade, (which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.3.4 with all lead and lift and directions of the Engineer in charge of the work	Sqm	80.00	Eighty Rupees and Zero Paise
18	944.40	KSRRB M400-6.2: Construction of granular sub-base by providing Close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications. A Plant Mix methad For Grading II Material with all lead and lift and directions of the Engineer in charge of the work	Cum	1300.00	One Thousand Three Hundred Rupees and Zero Paise

B.B.

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Executive Engineer (Project)

Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of B B UMESHA	
				Rate in figures	Rate in words
19	X 1180.50	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 with all lead and lift and directions of the Engineer in charge of the work	Cum	X 1400.00	One Thousand Four Hundred Rupees and Zero Paise
20	X 4722.00	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 with all lead and lift and directions of the Engineer in charge of the work	Cum	X 80.00	Eighty Rupees and Zero Paise
21	X 300.00	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 with all lead and lift and directions of the Engineer in charge of the work	Sqm	X 60.00	Sixty Rupees and Zero Paise
22	X 9744.00	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 with all lead and lift and directions of the Engineer in charge of the work	Sqm	X 60.00	Sixty Rupees and Zero Paise
23	X 236.10	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 with all lead and lift and directions of the Engineer in charge of the work	Cum	X 8350.00	Eight Thousand Three Hundred Fifty Rupees and Zero Paise

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Sl. No.	App Qty	Description	Unit	Approved Teneder Rates of B B UMESHA	
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24	200.88	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with all lead and lift and directions of the Engineer in charge of the work	Cum	9500.00	Nine Thousand Five Hundred Rupees and Zero Paise
25	225.00	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.with all lead and lift and directions of the Engineer in charge of the work	Sqm	500.00	Five Hundred Rupees and Zero Paise
26	150.00	Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification. with all lead and lift and directions of the Engineer in charge of the work	Nos	330.00	Three Hundred Thirty Rupees and Zero Paise

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